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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/045,948	10/26/2001	Thomas Samuel Zemanian	E-13260	2515	
7590 10/14/2004			EXAM	EXAMINER	
Douglas E. M		METZMAIER	METZMAIER, DANIEL S		
McKinley Law	Office				
P.O. Box 202			ART UNIT	PAPER NUMBER	
Richland, WA 99352			1712		

DATE MAILED: 10/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)	7
		10/045,948	ZEMANIAN ET AL.	
		Examiner	Art Unit	
		Daniel S. Metzmaier	1712	
Period fo	The MAILING DATE of this communication appoint Reply	ears on the cover sheet with the c	orrespondence address	
THE - Extending - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period with the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONF	nely filed s will be considered timely. the mailing date of this communic D (35 U S C & 133)	ation.
Status				
2a)□	Responsive to communication(s) filed on <u>13 Fe</u> This action is FINAL . 2b) This Since this application is in condition for allowan closed in accordance with the practice under Ex	action is non-final. ce except for formal matters, pro		s is
Dispositi	ion of Claims			
5)⊠ 6)⊠ 7)⊠	Claim(s) <u>1-25</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) <u>21-25</u> is/are allowed. Claim(s) <u>1-5,7-9 and 11-20</u> is/are rejected. Claim(s) <u>6 and 10</u> is/are objected to. Claim(s) are subject to restriction and/or			
Applicati	on Papers			
10)□	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the d Replacement drawing sheet(s) including the correction to oath or declaration is objected to by the Examiner.	pted or b) objected to by the E rawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.12	
Priority u	ınder 35 U.S.C. § 119			
12) a)[Acknowledgment is made of a claim for foreign part All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau see the attached detailed Office action for a list of	have been received. have been received in Application ty documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage	
Attachment	• •			
2) ∐ Notice 3) ⊠ Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date 9/2/03.	4) Interview Summary (Paper No(s)/Mail Dat 5) Notice of Informal Pa 6) Other:	te	

DETAILED ACTION

Claims 1-25 are pending.

Information Disclosure Statement

- 1. The Information Disclosure Statement (IDS) filed September 2, 2003 was filed before the mailing of the Final Office Action on September 11, 2003. Said requires either a certification statement or a fee as set forth in 37 CFR 1.97(e) or a fee set forth in 37 CFR 1.17(p). Applicants provide a charge account for said fee in said IDS.
- 2. The information disclosure statement filed September 02, 2003 fails to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609 because the reference citation fails to provide a place of publication and a date of publication. It appears the reference was obtained from an unnamed database. It has been placed in the application file, but the information referred to therein has not been considered as to the merits. Applicant is advised that the date of any re-submission of any item of information contained in this information disclosure statement or the submission of any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the statement, including all certification requirements for statements under 37 CFR 1.97(e). See MPEP § 609

Specification

3. The disclosure is objected to because of the following informalities: applicants should update the status of the application on page 7 of the application.

Appropriate correction is required.

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-5, 7-9 and 11-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Battelle Memorial Institute, WO 0/56450. Battelle Memorial Institute (abstract, examples and claims) disclose treating mesoporous materials with silanes under supercritical conditions to form monolayers. While the materials are characterized in the reference as mesoporous silica, the claims set forth ceramic oxide aerogels. The structure of both ceramic oxide aerogels and metoporous silica are the porous silicates and have not been shown to be distinct.
- 6. Claims 1-5 and 7-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Cabot Corp, WO 99/36355. See abstract and claims. The claimed characterization of a monolayer would have been inherent to the Cabot Corp reference since all available surface groups would have reacted to form the hydrophobic silica.
- 7. Claims 1-5 and 7-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Hrubesh et al, US 6,005,012. See abstract, examples and claims. The claimed characterization of a monolayer would have been inherent to the Hrubesh et al reference since all available surface groups would have reacted to form the hydrophobic silica.

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8. Claims 1-4 and 7-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Teicher et al, US 3,562,177. See abstract, examples and claims. The claimed characterization of a monolayer would have been inherent to the Teicher et al compositions since all available surface groups would have reacted to form the ammonium coated silica.

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Allowable Subject Matter

- 9. Claims 6 and 10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 10. Claims 21-25 allowed.
- 11. The following is a statement of reasons for the indication of allowable subject matter: See paragraph number 8 of the Office Action mailed September 11, 2003.

Response to Arguments -

12. Applicant's arguments with respect to claims 1-5 and 7-9 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel S. Metzmaier whose telephone number is (571) 272-1089. The examiner can normally be reached on 9:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy P. Gulakowski can be reached on (571) 272-1302. The fax phone

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number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel S. Metzmaier Primary Examiner Art Unit 1712

DSM